MM Ceramics & Ferro Alloys
a MTC Group Company

FeNi

Ferro Nickel

Ferronickel is ferroalloy used for alloying of stainless and construction steels. There are several types of ferronickel. It is produced from different nickel containing alloys scraps (usually also contain Cr and Co, Mo, W, Ti, Cu, Si, etc impurities) or produced in reduction furnaces from nickel concentrates, obtained by the process of carbothermic reduction of minerals like limonite, serpentine, and garnierite. It can contain high/low Ni and Fe content.

Available shapes:
Semispherical / rectangular / cone shape ingots of 200-1000 kg, Granules and shot

Applications

Some of Ferro Nickel alloy's applications are found in industries like

FeNi

Product Specifications of Ferro Nickel

Parameters	Option 1 - NPI	Option 2	Option 3
Nickel (Ni)	11-15%	21-24% Min	25-35%
Cobalt (Co)	0.5% Max	0.45% Max	0.5-0.85 Max
Chrome (Cr)	1.5% Max	0.03% Max	0.06%Max
Phosphorous (P)	0.05% Max	0.03% Max	0.03% Max
Carbon (C)	2.5% Max	0.02% Max	0.04% Max
Sulphur (S)	0.03% Max	0.06% Max	0.06% Max
Silicon (Si)	2% Max	0.38% Max	0.4% Max
Copper (Cu)	0.03% Max	0.06% Max	0.02%- 0.06%
Manganese (Mn)	0.05% Max	--	--
Moisture	--	--	--
Iron (Fe)	BAL	BAL	BAL
Size	3-50mm	--	2-70mm

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Product Specifications of Ferro Nickel

Parameters	Option 4	Option 5	Option 6
Nickel (Ni)	35-40% Max	15-19%	11-16%
Cobalt (Co)	0.95% Max	1.5% Max	--
Chrome (Cr)	0.1% Max	--	--
Phosphorous (P)	0.02% Max	0.05% Max	0.05% Max
Carbon (C)	0.06% Max	0.02% Max	3% Max
Sulphur (S)	0.25% Max	0.8% Max	0.4% Max
Silicon (Si)	0.4% Max	0.02% Max	4% Max
Copper (Cu)	0.15% Max	0.2% Max	--
Manganese (Mn)	--	--	--
Moisture	0.3% Max	0.2% Max	--
Iron (Fe)	BAL	BAL	--
Size	--	--	15-20kg ingot shape